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REVISION - 1 MARK CH-3

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SECTION A (1 MARK)-MCQ

1. Graphically, the pair of equation
6x-3y+10=0
2x-y+9=0
Represents two lines which are

(A) Intersecting at exactly one point
(B) Intersecting at exactly two point
(C) Coincident
(D) Parallel

2. The pair of equation x+2y+5=0 and -3x-6y+1=0 have :

(A) A unique solution
(B) Exactly two solutions
(C) Infinitely many solutions
(D) No Solution

3. If a pair of linear equations is consistent, then the lines will be:

(A) Parallel
(B) Always coincident
(C) Intersecting or coincident
(D) Always interesting

4. For what value of k, do the equations 3x-y+8=0 and 6x-ky=-16 represents coincident lines?

(A) 12
(B) −12
(C) 2
(D) -2

5. The father's age is six times his son's age. Four years hence, the age of the father will be four times his son's age. The present ages, in years, of the son and the father are, respectively:

A) 4 and 24
(B) 5 and 30
(C) 6 and 36
(D) 3 and 24

6. The point of intersection of the line represented by 3x – y = 3 and y-axis is given by

A) (0,-3) B) (0,3) C) (2,0) D) (-2,0)

7. For what value of k , does the system of linear equations have an infinite number of solutions
2x + 3y =7, (k-1)x + (k+2)y =3k
A) 7 B) 17 C) -6 D) -7

8. The pair of linear equations y=0 and y= -6 has

A) unique solution
B) no solution
C)infinitely many solution
D) only solution (0 ,0)

9. The sum of digits of a two- digit number is 9. If 27 is subtracted from the number ,its digits are interchanged. Which of these is the product of the digits of the number?

A) 8 B)14 C) 18 D) 20

10. If x =a and y = b is the solution of the equations x – y =2 and x + y =4, then the values of a and b are respectively

A) 3 and 5 B) 5 and 3 C) 3 and 1 D) -1 and 3